

# Updates on the National Public Safety Broadband Network

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Public Safety Interoperable  
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# Outline



- National Public Safety Broadband Network (NPSBN) Status
  - Legislation & Planned Architecture
  - Timeline and Key upcoming events
  - National Telecommunications & Information Administration's (NTIA) request for comment on the State and Local Grant Program
  - National Public Safety Telecommunications Council (NPSTC) NPSBN Statement of Requirements effort
- Arizona Public Safety Broadband Network (AZPSBN) Status
  - Arizona's Role & Project Plan
  - National Governor's Association (NGA) forum on "Preparing for Public Safety Broadband"
  - Western States regional discussions
  - Vendor and Utility discussions
- Recommended Resources



# **NATIONAL PUBLIC SAFETY BROADBAND NETWORK (NPSBN) STATUS**

# National Public Safety Broadband Network



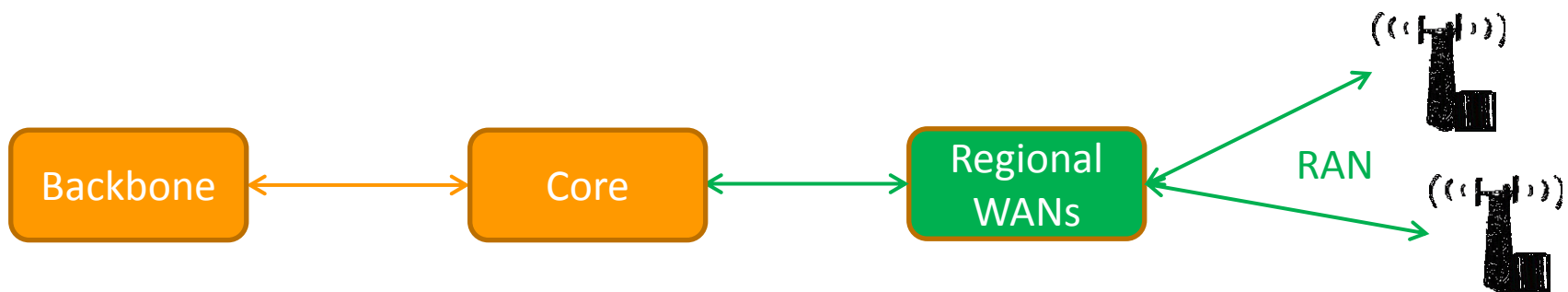
On February 22, 2012, H.R. 3630 was signed into law. Key features of the legislation include:

- Allocates the “D-Block” spectrum to Public Safety
- Forms First Responder Network Authority (FirstNet)
  - Responsible for build out and maintenance of a national NPSBN
  - Responsible for working with local jurisdictions to define boundaries, roles and responsibilities
- Provides funding to both perform the upfront requirements gathering (\$135M – State and Local Implementation Grant Program (SLIGP)) and the design/build of the overall Nationwide Network (\$7B).
- Establishes a Fee-based model and allows Public/Private Partnerships

# NPSBN – Planned High Level Architecture



- NPSBN – Feds to Build - National backbone and core network with national data centers (which may be distributed geographically)
  - Based on commercial standards
  - Provides connectivity between the radio access network (RAN) and the public Internet and the public switched network
- TBD Who will Build (Fed or Region) - Regional Wide Area Network and Radio Access Network (RAN) consisting of cell site equipment, antennas, and backhaul equipment needed to enable wireless communications with devices using the NPSBN



# Timeline and Key upcoming events



- March 22, 2012 – FCC's Interoperability Board formed
- May 22, 2012 – FCC's Interoperability Board published the minimum interoperability requirements
- May – June 2012 - NTIA requests input regarding how SLIGP grant program should be organized
- **August 20, 2012 – NTIA to announce FirstNet Board members**
- August 22, 2012 – NTIA to provide guidance for the SLIGP grant process (\$135 million total nationally)(*Note: This may be delayed due to the need for FirstNet input.*)
- Q2 2013 – Submit an Arizona SLIGP grant request to NTIA for the analysis/costing of the Arizona RAN

# Timeline and Key upcoming events (cont.)



- Q3 2013 – Best guess of the date for SLIGP grant awards
- Early 2014 – Review RAN analysis/costing results with the Governor's Office
- Date unknown – Issuance of RFP to Arizona from FirstNet
- Perform a comparative analysis and review with the Governor's Office in preparation for the Opt-In (Feds build)/Opt Out (Arizona builds) decision (Due: 90 days after the receipt of the RFP)

# National Public Safety Broadband Network



- NTIA's requested comment on the State and Local Implementation Grant Program (SLIGP) in the following areas:
  - The Consultation Process (between FirstNet and the States)
  - Existing Public Safety Governance and Planning Authorities
  - Leveraging Existing Infrastructure
  - State and Local Implementation Grant Activities
  - State Funding and Performance Requirements
- Arizona's PSIC Office and the AZPSBN Workgroup provided responses in each area
- Our input was provided to:
  - The Arizona Department of Homeland Security for inclusion into the NGA response
  - The Public Safety Spectrum Trust – Operator Advisory Council (waiver recipients) for inclusion in their response
  - The NTIA directly



# Key Elements of Our SLIGP Recommendations



- The SLIGP grant process should compensate the States for the effort required to document the; headcounts, coverage requirements, functional requirements and shareable assets of the local jurisdictions
- Recommended using existing Public Safety oriented governance, namely the PSCC and include the State CIO, SBI Broadband, and 9-1-1 stakeholders
- Discussed the types of infrastructure to be documented including rights-of-way and Public-Private assets
- In addition to compensating existing resources, the SLIGP process may require creating additional staff positions which should be funded
- Emphasized the need to consider rural coverage options
- Recommended waiving the 20% requirement and if not completely waived then the “in kind” contribution of resource time should be fully considered and allowed

# NPSTC Statement of Requirements



- The National Public Safety Telecommunications Council (NPSTC) is working to define the Statement of Requirements for the FirstNet/NPSBN
  - Over 100 people representing public safety, state & local government, land mobile radio (LMR) vendors, cellular providers, etc. are working to define the requirements of the NPSBN for FirstNet
  - The PSIC Office is providing input to the Local Operations section, the Executive Summary and serving on the Editorial board
  - The plan is to complete the document by August 20, 2012. It will be posted on the NPSTC website for their traditional 30-day comment period and provided to FirstNet directly.



## **Questions about the National Public Safety Broadband Network or H.R. 3630?**



# **ARIZONA PUBLIC SAFETY BROADBAND NETWORK STATUS**

# Arizona's Role



- Identified Public Safety Interoperable Communication Office (PSIC) as the single agency to work with FirstNet / NTIA
- Established an Arizona Public Safety Broadband Network (AZPSBN) Workgroup
  - Technical – Inventory, Implementation, Coverage, etc.
  - Governance – Fee-based, Policies, Standards & Procedures, etc.
- Developing a plan for the best use of the SLIGP (once received)
- In the future – Will work with FirstNet to evaluate Arizona's needs for coverage and integration into the NPSBN, while exploring infrastructure sharing and public/private partnerships

# AZPSBN Project Plan (1 of 2)



- Track NPSBN progress, in particular:
  - The Interoperability Board’s minimum technical requirements
  - First Net’s progress on RAN planning
  - Input/decisions from agencies such as the FCC, NTIA, DHS, OEC, etc.
- Provide input to the Statewide Communications Interoperability Plan (SCIP) update effort as it relates to broadband planning.
- Work with the Digital Arizona project and 9-1-1 programs to assure integration and to identify synergies.
- Work with the Arizona public safety community to advise the PSCC regarding statewide standards for interoperability on the NPSBN

# AZPSBN Project Plan (2 of 2)



- Advise the PSIC Office in regard to a grant request under the SLIGP - State and Local Implementation Grant Program
- Work with the Arizona public safety community to plan how Arizona will interact with the NPSBN and FirstNet
- Plan and prepare for the FirstNet RFP proposal by recommending minimum criteria based on Arizona's public safety needs.
- Perform the research and analysis required to provide substantive input on the Opt-In/Opt-Out decision.
- Continually Report on progress.

# National Governor's Association



- From June 28-29<sup>th</sup>, Arizona PSIC staff attended the NGA forum on “Preparing for Public Safety Broadband”. The key messages were:
  - The current Public Safety Land Mobile Radio systems will be required well into the future. The NPSBN is a data solution and will not replace mission critical voice in the foreseeable future
  - States should include their CIO in the planning process. Arizona’s State CIO Aaron Sandeen has been involved in Arizona’s planning process from the beginning
  - Emphasized the need to explore Public-Private Partnerships with commercial cellular providers and utilities
- In a breakout session, many of the Western States - CA, CO, NM, NV, and UT - expressed interest in forming a regional broadband planning group to promote the shared issues of rural coverage and to explore infrastructure sharing options across state borders



# Western States Regional Approach



- We are working with the western states to explore a regional approach
- The SBI Broadband teams (Digital Arizona project) were already meeting with their Western partners so this should be similar
- Nevada is taking the lead to organize these discussions
- Some areas of planned discussion:
  - Public-Private Partnership models
  - Rural options and approaches
  - Legislative timing issues (for instance, NV meets every other year)

# Vendor discussions



- PSIC is having preliminary discussions with vendors. Some are focused on the assisting States with the SLIGP process while others are working toward partnering with FirstNet on the national build-out:
- SLIGP guidance and analysis:
  - RCC Consultants – 4/20
  - Televate – 5/11 and a presentation on 7/13
  - Federal Engineering – 6/4
- FirstNet partners:
  - Alcatel Lucent – 4/23
  - Raytheon – 4/26
  - General Dynamics – 6/5
  - Zayo – 6/19
  - Northrop Grumman – 6/26

# Utility discussions



- PSIC was contacted by the Utilities Telecom Council (UTC) which is a national association representing the telecommunications needs of utilities
- They were looking for the NPSBN contact within the State so that an Arizona utility could open discussions about possible Public – Private Partnerships
- The utility turned out to be Salt River Project and we met with them to discuss sharing options
- We are also trying to get all Arizona utilities represented as a single group under the UTC so that we can have one dialogue and each utility will get the same message s



**Discussion; Questions?**

**Thank You!**

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# Recommended Resources (1 of 2)



- <http://www.azgita.gov/psic/meetings/2012/apr17/>
  - Presentation: [H.R. 3630 and the National Public Safety Broadband Network](#)  
Handout: [Establishment of the Arizona Public Safety Broadband Network \(AzPSBN\) Workgroup](#)  
Handout: [NCSWIC Broadband Memo: Nationwide Public Safety Broadband Network \(NPSBN\) – The SWIC Role](#)  
Handout: [National Public Safety Broadband Network Acronym List](#)  
Broadband: <http://www.azpsic.gov/library/broadband/>
- Urgent Communications Webinar:
  - Anna Gomez: Deputy Assistant Secretary, NTIA
  - [\*Next Generation Communications: What Does It Mean To You?\*](#)
- Summary of H.R. 3630
  - Chris Essid: Director, Office of Emergency Communications
  - [\*Summary of the Nationwide Public Safety Broadband Network \(NPSBN\) Legislation\*](#)
- NCSWICS memo: The SWIC's role in the NPSBN ([see handout](#))
  - Mark Grubb: Chair – National Council of SWICs (NCSWIC)

# Recommended Resources (2 of 2)



- The Governors role in the NPSBN (see handout)
  - Penny Rubow: Arkansas SWIC, reviewed by the NCSWIC Executive Committee
- APCO Tech Forum presentation
  - Andy Seybold: Vice-Chairman, APCO Broadband Committee
  - [Broadband 101](#)
- National Public Safety Telecommunications Council (NPSTC) Website – planned launch April 16, 2012
  - Clearing house for all things Public Safety Broadband
  - [Public Safety Broadband Directory](#)